



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:) Attorney Docket No.
Heideman et al.) 080743165002
Serial No.: 09/693,803)
Filed: October 20, 2000)
For: INTEGRATED OPTICAL)
LIGHTGUIDE DEVICE)
Examiner: Kang, Juliana)
Group Art Unit: 2874)

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AMENDMENT AND RESPONSE

In response to the Office Action mailed September 4, 2001, please amend the
above-identified application as follows:

In The Claims:

Cancel claims 1-12

Add new claims 13-24 as follows:

A *B* *B*

13. A method to determine the amount of light passing through an integrated optical light guide device from a light source located at an entrance to a light detector located at an exit thereof said light guide device comprising along the direction of light propagation several types of segments, each type of segments showing a different refractive index profile, the refractive index profile of at least one type of segments being sensitive to the value of an external physical parameter or chemical compound activating said segment by contacting, characterized in that use is made of a refractive index profile dependent attenuation of guided modes passing transitions between two different segments, and in that segments of one type show measured along the light propagation in the direction of the guided modes a predetermined arbitrary length

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